

Alternate 3 Comprehensive Site Cleanup

Description:

This alternative includes a comprehensive excavation of impacted soils within site boundaries. The intent is to achieve closure without further site restrictions. The principal area of impact is in the western portion of the site. (Area A). Other areas would be excavated to remove shallow impacts (Areas B and C). The combined sewer will be replaced through the length of the site. All activities will be completed under an enclosing structure. The redesigned asphalt cap will be constructed to accommodate Post Office uses.

Budgetary Cost Estimate

Task Description	Quantity		Unit Rate		Cost Range	
	Low	High	Low	High	Low	High
Engineering						
Engineering Design	1	1	\$ 35,000.00	\$ 60,000.00	\$ 35,000	\$ 60,000
Oversight (wk)	16	24	\$ 5,000.00	\$ 7,000.00	\$ 80,000	\$ 168,000
Air Monitoring	12	20	\$ 13,000.00	\$ 16,000.00	\$ 156,000	\$ 320,000
Remediation						
Field Activities (tons)	40,894	44,983	\$ 35.00	\$ 45.00	\$ 1,431,286	\$ 2,024,248
Sheet Piling (L.F.)	300	500	\$ 875.00	\$ 1,200.00	\$ 262,500	\$ 600,000
Sewer Installation (L.F.)	260	260	\$ 750.00	\$ 950.00	\$ 195,000	\$ 247,000
Enclosing Structure	1	1	\$ 300,000.00	\$ 500,000.00	\$ 300,000	\$ 500,000
Transportation & Disposal						
Wastewater Mgmt, T & D	150,000	250,000	\$ 0.30	\$ 0.45	\$ 45,000	\$ 112,500
Soil T & D (Milam) (tons)	38,849	38,236	\$ 18.50	\$ 22.50	\$ 718,710	\$ 860,305
Source T & D (PDC) (tons)	2,045	6,747	\$ 42.00	\$ 64.00	\$ 85,877	\$ 431,839
Site Restoration						
Asphalt Surfacing (sq ft)	46,310	46,310	\$ 4.50	\$ 6.00	\$ 208,395	\$ 277,860
Landscaping	1	1	\$ 10,000.00	\$ 25,000.00	\$ 10,000	\$ 25,000
Street and Property Repair	1	1	\$ 50,000.00	\$ 100,000.00	\$ 50,000	\$ 100,000
Post Office Ops Coordination			\$ 80,000.00	\$ 1,000,000.00	\$ -	\$ -
Remediation Costs					\$ 3,306,768	\$ 5,178,752
Post - Remediation 30 yr O&M (pv)						
Cap Maintenance	1	1	\$ 2,000.00	\$ 4,000.00	\$ 54,218	\$ 108,435
Remediation Cost with 30 yr O&M					\$ 3,360,986	\$ 5,287,188

Notes and Calculations:

Engineering: Includes report preparation and design of project activities, permitting, and field oversight and air monitoring

Field Activities: Excavate soils to the average depths within the designated areas, material handling, backfill, and compaction. Excavation to remove the sewer is approximately 30 feet deep, with an average width of 30 feet.

Sheet Piling: Linear foot based on average 35 to 40 foot depth. Average installed costs range from \$25 to \$30 per LF.

Sewer Installation: Replace 260 L.F. of existing combined sewer. Costs are for delivery and installation only. Costs for excavation, disposal, and backfilling have been included under the field activities line item.

Enclosing structure: Structure, mobilization and setup, and air handling unit costs are included.

Transportation and Disposal: Costs include delivery of nonhazardous soils to Milam Landfill facility in St. Clair County, and source material to Peoria Disposal Landfill. Estimated percentage of source material ranges from 5% to 15% of the total soil vol

Site restoration includes repair, replacement, and redesign of surface features, and property affected by the remedial actions.

Asphalt Surface: Design and install asphalt surface to meet the requirements for use by the Post Office. Maintenance costs are provided under O&M.

Post office ops and coordination includes temporary alterations to facilities and operations to minimize the interruption of service. High option costs include temporary relocation of Post Office operations for the duration of the project.

Operation and Maintenance: Asphalt cap maintenance costs. Annual cost and 30 yr present value shown.

Projected Excavation Areas:

Area ID	Area (sqft)	Depths
A	20,040	25
B	18,270	7
C	8,000	3

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